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## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 09/10/2009

Johnson & Johnson International Patent Law Division P.O. Box 1222 New Brunswick, NJ 08901

EXAMINER				
NGHIEM, MICHAEL P				
ART UNIT	PAPER NUMBER			

2863 DATE MAILED: 09/10/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/577,586	04/26/2006	Oliver William Davies	DI5015USNP	3793

TITLE OF INVENTION: METHOD OF REDUCING THE EFFECT OF DIRECT INTERFERENCE CURRENT IN AN ELECTROCHEMICAL TEST STRIP

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/10/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
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									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		АТТО	RNEY DOCKET NO.	CON	FIRMATION NO.
10/577,586 TITLE OF INVENTIO	04/26/2006 N: METHOD OF RED	UCING THE EFFECT (	Oliver William Dav OF DIRECT INTERFE		NCE CURRENT		DI5015USNP ELECTROCHEMIC	AL TE	3793 ST
STRIP									
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	:	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810		12/10/2009
EXAM	MINER	ART UNIT	CLASS-SUBCLASS						
NGHIEM, I	MICHAEL P	2863	702-022000						
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PLEASE NOTE: Un	lless an assignee is ident	tified below, no assignee	data will appear on the	he pa	itent. If an assign	ee is id	lentified below, the d	locume	nt has been filed for
(A) NAME OF ASSI	•	pletion of this form is NO	a substitute for filing (B) RESIDENCE: (C		· ·	COUNT	'RY)		
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Please check the appropr	riate assignee category or	r categories (will not be p	orinted on the patent):	<u> </u>	Individual 🖵 Co	orporati	on or other private gr	oup ent	ity 🗖 Government
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (		se first reapply a	ny prev	iously paid issue fee	shown	above)
☐ Issue Fee ☐ Publication Fee ()	No small entity discount	permitted)	☐ A check is enclos☐ Payment by credi		d Form PTO-2038	is atta	iched		
	# of Copies		☐ The Director is he	reby	authorized to char	ge the	required fee(s), any de	eficienc	y, or credit any
5 Change in Entity Ste	ntus (from status indicate	d above)	overpayment, to 1	epos	sit Account Numb	er	(enclose a	ın extra	copy of this form).
	ns SMALL ENTITY state		☐ b. Applicant is no	long	ger claiming SMA	LL ENT	ΓΙΤΥ status. See 37 C	FR 1.2	7(g)(2).
NOTE: The Issue Fee ar interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be accepted tes Patent and Trademar	ed from anyone other th k Office.	nan th	ne applicant; a regi	istered a	attorney or agent; or the	he assig	gnee or other party in
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an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 22.	ntiality is governed by 35 application form to the ions for reducing this bu Virginia 22313-1450. DO 313-1450.	CFR 1.311. The informati 5 U.S.C. 122 and 37 CFR 2 USPTO. Time will var rden, should be sent to the O NOT SEND FEES OR persons are required to re	1.14. This collection i y depending upon the i ne Chief Information O COMPLETED FORM	s esti indivi iffice S TC	imated to take 12 idual case. Any cor, U.S. Patent and THIS ADDRESS	minutes omment Traden S. SENI	s to complete, includings on the amount of times of the control of	ng gath me you artmen for Pat	ering, preparing, and require to complete t of Commerce, P.O. ents, P.O. Box 1450,



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10/577,586	04/26/2006	Oliver William Davies	DI5015USNP	3793
75	90 09/10/2009		EXAM	INER
Johnson & Johnson		NGHIEM, MICHAEL P		
International Paten	t Law Division	ART UNIT PAPER NUMBER		
P.O. Box 1222 New Brunswick, NJ 08901		2863 DATE MAILED: 09/10/200	9	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	   10/577,586	DAVIES ET AL.	DAVIES ET AL.		
Notice of Allowability	Examiner	Art Unit			
	   MICHAEL P. NGHIEM	2863			
The MAILING DATE of this communication appea.  All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313  1. This communication is responsive to Communication filed	(OR REMAINS) CLOSED in to or other appropriate communates. This application is subsended MPEP 1308.	nis application. If not included cation will be mailed in due course. <b>TH</b>			
2. ☑ The allowed claim(s) is/are <u>1-10</u> .					
<ol> <li>Acknowledgment is made of a claim for foreign priority under the control of the priority documents have control of the control o</li></ol>	been received. been received in Application	No	e		
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.   A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application. itted. Note the attached EXAN	IINER'S AMENDMENT or NOTICE OF			
INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath or d	eclaration is deficient.			
5. $\square$ CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.				
(a) ☐ including changes required by the Notice of Draftspers		PTO-948) attached			
1) ☐ hereto or 2) ☐ to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t					
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT					
Attachment(s)					
1. Notice of References Cited (PTO-892)		rmal Patent Application			
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ail Date			
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🔼 Examiner's A	mendment/Comment			
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's S 9. □ Other	atement of Reasons for Allowance			

# Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on August 26, 2009 has been entered.

## Information Disclosure Statement

The information disclosure statement filed on August 26, 2009 fails to comply with 37 CFR 1.98(a)(1), which requires the following: (1) a list of all patents, publications, applications, or other information submitted for consideration by the Office; (2) U.S. patents and U.S. patent application publications listed in a section separately from citations of other documents; (3) the application number of the application in which the information disclosure statement is being submitted on each page of the list; (4) a column that provides a blank space next to each document to be considered, for the examiner's initials; and (5) a heading that clearly indicates that the list is an information disclosure statement. The information disclosure statement has been placed in the application file, but the information referred to therein has not been considered. Search

Reports and Written Opinions are not listed. Furthermore, NPL reference Matsue et al.,

"Multichannel electrochemical detection system for flow analysis" is not listed. It is noted

that the references cited in the Search Reports and Written Opinions have been listed in

prior IDS's. NPL reference Matsue et al. is now listed in the Notice of References Cited,

form PTO-892.

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given by Mr. Khoi Ta during a

telephone interview on August 31, 2009.

The application has been amended as follows:

In the specification:

Paragraph 00074, line 9, after "10/143,399", insert -- , now abandoned ---.

Replace Claim 1 with the following:

-- 1. (Currently Amended) A method of reducing interferences in an electrochemical

sensor comprising:

measuring a first current using a first working electrode, said first working electrode having an area being covered by a reagent layer;

measuring a second current using a second working electrode having a covered area coated by the reagent layer and an uncovered area not coated by the reagent layer such that intereferent current produced at the uncovered area is proportional to interferent current produced overall; and

calculating, by a meter, a corrected current value representative of a glucose concentration using the measured first current, the measured second current, and a ratio of said covered area to said uncovered area of said second working electrode to reduce the effects of interferents. --

Replace Claim 3 with the following:

-- 3. (Currently Amended) A method of reducing interferences in an electrochemical sensor comprising:

measuring a first current using a first working electrode, wherein said reagent layer partially covers said first working electrode, said first working electrode having a first coated area covered by said reagent layer and a first uncoated area not covered by said reagent layer;

measuring a second current using a second working electrode, wherein said reagent layer partially covers said second working electrode, said second working electrode having a second covered area coated by said reagent layer and a second

uncovered area not coated by said reagent layer such that intereferent current produced at the uncovered area is proportional to interferent current produced overall; and

calculating, by a meter, a corrected current value representative of a glucose concentration using the measured first current, the measured second current, and a ratio of said covered area to said uncovered area of said first and said second working electrodes to reduce the effects of interferents. --

Replace Claim 7 with the following:

-- 7. (Currently Amended) A method of reducing interferences in an electrochemical sensor having a first and second working electrodes disposed on a substrate and an insulation disposed over electrodes and the substrate, the insulation having an opening to allow a reagent to contact portions of the first and second working electrodes, the method comprising:

measuring a first current using a first working electrode, said first working electrode having an area coated by the reagent;

measuring a second current using a second working electrode having an area coated by the reagent and an area uncoated by the reagent such that intereferent current produced at the uncoated area is proportional to interferent current produced overall; and

calculating, by a meter, a corrected current value representative of a glucose concentration using the measured first current, the measured second current, and a

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ratio of said coated area to said uncoated area of said second working electrode to reduce the effects of interferents. --

Replace Claim 9 with the following:

-- 9. (Currently Amended) A method of reducing interferences in an electrochemical sensor having a first and second working electrodes disposed on a substrate and an insulation disposed over electrodes and the substrate, the insulation having an opening to allow a reagent to contact portions of the first and second working electrodes, the method comprising:

measuring a first current using a first working electrode having a first coated area covered by the reagent and a first uncoated area not covered by the reagent;

measuring a second current using a second working electrode having a second covered area coated by said reagent and a second uncovered area not coated by said reagent such that intereferent current produced at the uncovered area is proportional to interferent current produced overall; and

calculating, by a meter, a corrected current value representative of a glucose concentration using the measured first current, the measured second current, and a ratio of said covered area to said uncovered area of said first and said second working electrodes to reduce the effects of interferents. --

#### Reasons For Allowance

The **combination** as claimed wherein a method for reducing interferences in an electrochemical sensor comprising calculating, by a meter, a corrected current value representative of a glucose concentration using a measured first current, a measured second current, and a ratio of a covered area to an uncovered area of a second working electrode (claims 1, 3, 7, 9) is not disclosed, suggested, or made obvious by the prior art of record.

Rappin et al. (US 2005/0157947) discloses a sensor for determining various concentrations of components within a fluid sample (Abstract, lines 1-2), a meter is attached to the sensor for measuring the electrochemical changes occurring in the reaction zone (Abstract, lines 10-13).

Winarta et al. (US 6,287,451) discloses a disposable electrode strip comprising a reference electrode and at least two working electrodes for testing a fluid sample (Abstract, lines 1-5). One of the working electrode contains a reagent similar to the reagent of the reference electrode and a second working electrode contains a reagent having an enzyme (Abstract, lines 13-16).

Hintsche et al. (US 5,830,343) discloses a process for performing electrochemical analysis of compounds of solutions using electrodes (Abstract, lines 1-8).

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Carter et al. (US 5,628,890) discloses an electrode strip for use in an electrochemical sensor for measuring a compound in a sample, the strip includes a reference electrode and a working electrode (Abstract, lines 1-5).

Braden et al. (US 5,298,146) discloses a device for detection of dissimilar gas components containing a number of working electrodes and a reference electrode (Abstract, lines 1-6).

Bae et al. (WO 2004/029605) discloses an apparatus and a method for determining whether or not a biosensor comprising two working electrodes and one reference electrode is well manufactured and for quantifying a substance in a biological sample (Abstract, lines 1-5).

Harman (WO 89/02593) discloses a method and apparatus for electrochemical determination of an electrochemical reactive substance in a fluid stream (Abstract, lines 1-2).

Harrington et al., "Multiple electrode potentiostat", discloses a general purpose multiple electrode potentiostat that measures currents at multiple working electrodes using a single auxillary electrode and a reference electrode (Abstract, lines 1-4).

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However, none of the above references teaches calculating, by a meter, a corrected current value representative of a glucose concentration using a measured first current at a first electrode, a measured second current at a second electrode, and a ratio of a covered area to an uncovered area of a second working electrode

### **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael P Nghiem whose telephone number is (571) 272-2277. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on (571) 272-2312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Michael P. Nghiem/

Primary Examiner, GAU 2863

August 31, 2009